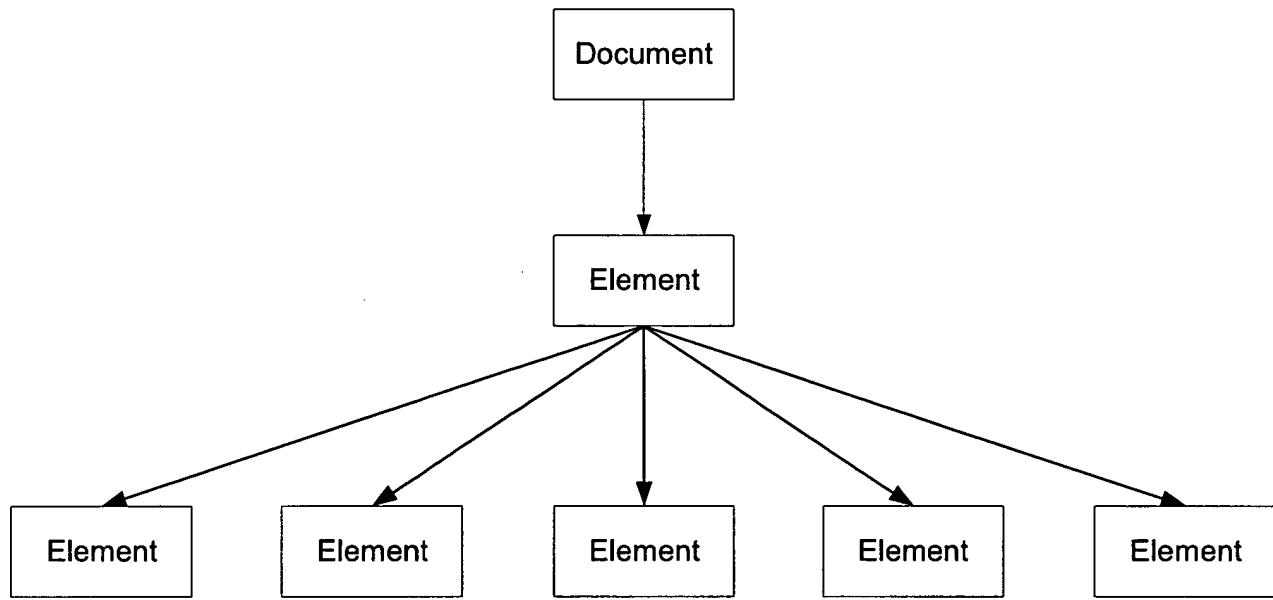


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FIG. 1

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FIG. 2

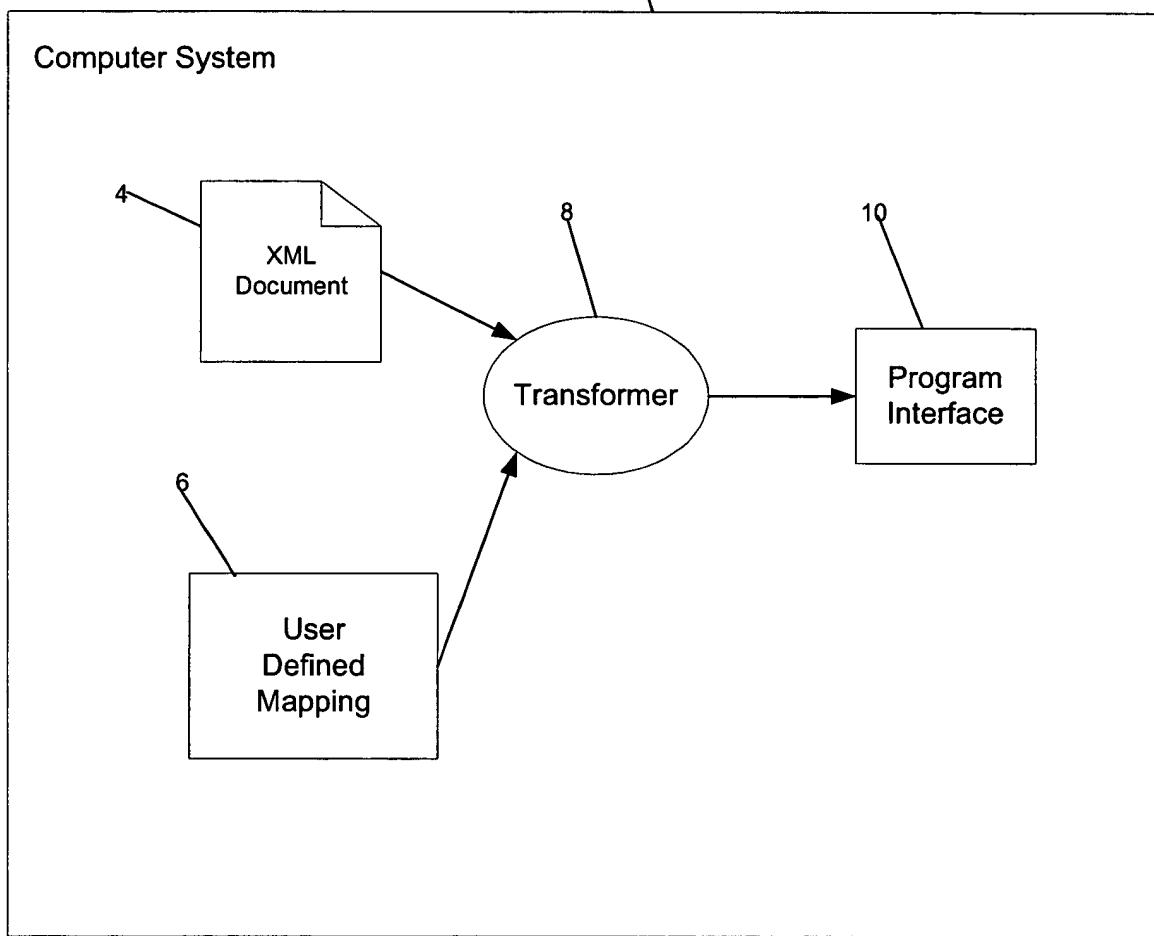
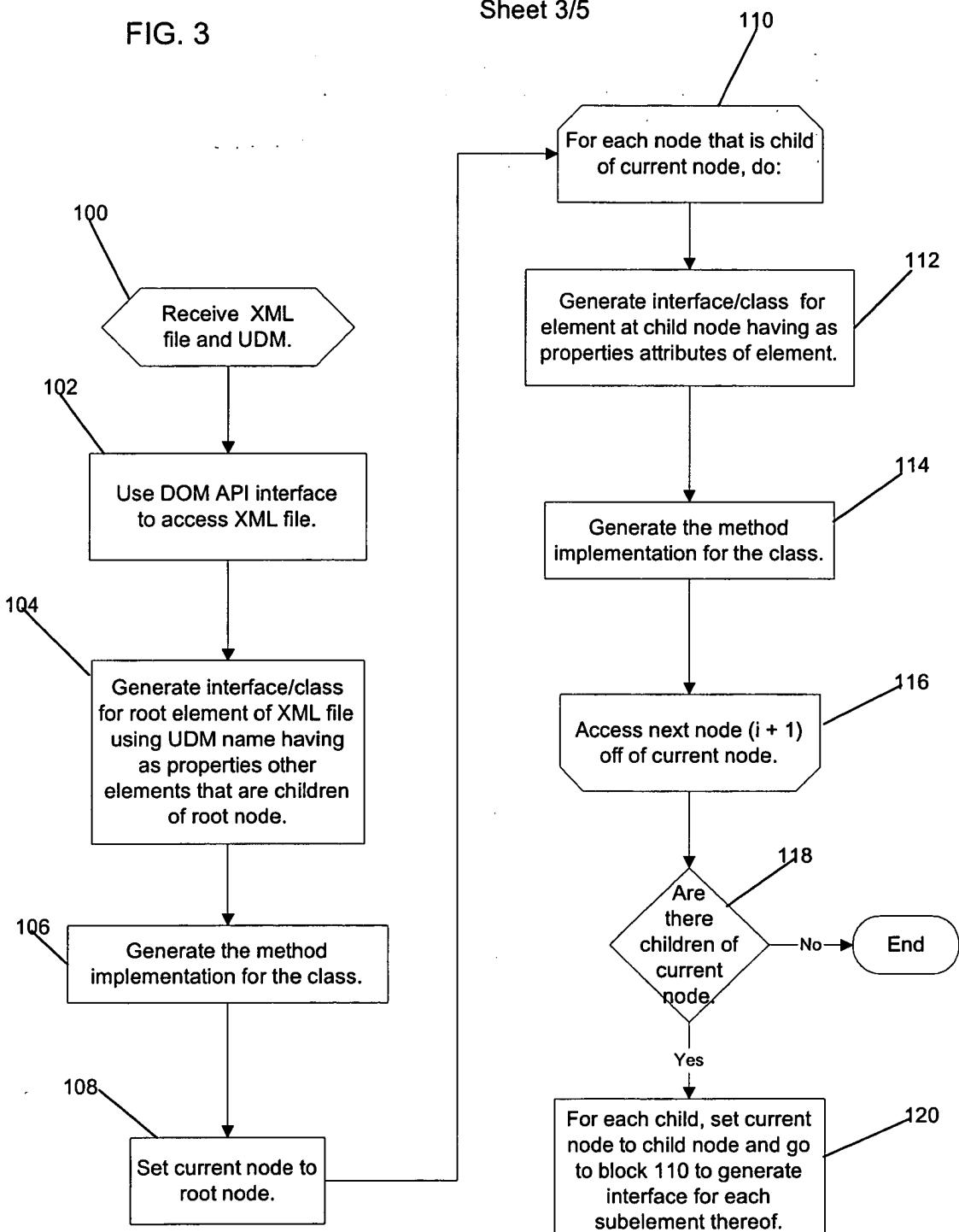


FIG. 3



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FIG. 4

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```
<xml version = "1.0".
<Catalog name = "pc-catalog">
<Item type = "Desktop PC" id="92" sub-type="6899" serial="689923F007">
<Description>
For the office, the IBM OfficePro offers today's most sophisticated,
cost-effective, industry standard technologies.
</Description>
<Specification>
<Processor type="Pentium Pro" speed="200" unit="MHz"/>
<Memory type="DIMM" size="5" unit="GB"/>
<Diskdrive type="SCSI" size="5" unit="GB"/>
</Specification>
<Price value="2000" unit="US"/>
</Item>

<Item>
...
</Item>

<Item>
...
</Item>

...
</Catalog>
```

IBM OfficePro

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FIG. 5

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```
<?xml version="1.0"?>
<!DOCTYPE udm SYSTEM "udm.dtd">
<udm to="catalog.xml">
<mapping to="catalog instantiationClassName="MyCatalog"/>
<mapping to="Item" attributeDataTypes="serial int"/>
<mapping to="Description"/>
<mapping to="Specification"/>
<mapping to="Processor" attributeDataTypes="speed int"/>
<mapping to="Memory" attributeDataTypes="size int"/>
<mapping to="Disdrive" attributeDataTypes="size int"/>
<mapping to="Price" attributeDataTypes="value int"/>
</udm>
```